```
Set       Items     Description
S1          0       "TRAVEL DISTANCE" AND GPS? AND (ALARM? OR WA
S2          0       "TRAVEL DISTANCE" AND GPS? AND (ALARM? OR WA
S3          0       (TRAVEL? (3N) DISTANCE) AND GPS? AND (ALARM?
S4         64       (TRAVEL? (3N) DISTANCE) AND GPS?
S5          0       (TRAVEL? (3N) DISTANCE) AND GPS? AND EXCEED?
S6          0       (COMPUT? (S) (TRAVEL? (3N) DISTANCE)) AND GP
S7         11       (COMPUT? (S) (TRAVEL? (3N) DISTANCE)) AND GP
S8          9       RD  (unique items)
S9          0       (DEFORMED (2N) MAP?) AND ROAD AND SECTION? A
S10         0       (DEFORMED (2N) MAP?) AND ROAD AND SECTION?
S11         5       (DEFORMED (2N) MAP?) AND SECTION?
S12         3       RD  (unique items)
S13         0       (MOVING (2N) QUER?) AND (BOUND? (2N) BOX?) A
                    DIRECTION?
S14         0       (MOVING (2N) QUER?) AND (BOUND? (2N) BOX?) A
                    DIRECTION?
S15         3       (MOVING (2N) QUER?) AND (BOUND? (2N) BOX?)
S16         3       S15 AND INDEX?
S17         1       S16 AND (QUER? (2N) INDEX?)
?
```

T S15/3,KWIC/1-3

   15/3,KWIC/1   (Item 1 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)
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07970660   E.I. No: EIP06169825180
   **Title: Processing   moving   queries   over   moving
motion-adaptive   indexes**
   Author: Gedik, Bugra; Liu, Ling
   Corporate Source: College of Computing Georgia Institute
Atlanta, GA 30332-0280, United States
   Source: IEEE Transactions on Knowledge and Data Engineeri
2006. p 651-668

   **Title: Processing   moving   queries   over   moving
motion-adaptive   indexes**
   Abstract: This paper describes a motion-adaptive indexing
efficient evaluation of moving continual queries (MCQs)
objects. It uses the concept of motion-sensitive bounding
to model moving objects and moving queries . These boun
automatically adapt their sizes to the dynamic motion behavi
individual objects. Instead of indexing...
...object positions, we index less frequently changing obje
MSBs, where updates to the bounding boxes are needed on
and queries move across the boundaries of their boxes . T
decrease the number of updates to the indexes. More importan
predictive...

...to optimistically precalculate query results, decreasing
searches on the indexes. Motion-sensitive bounding   boxes
incrementally update the predictive query results. Furthermo
introduce the concepts of...

...show that the proposed motion-adaptive indexing scheme i
the evaluation of both moving continual range queries a
continual kNN queries . copy 2006 IEEE. 32 Refs.
   Identifiers: Moving object databases; Spatio-temporal inde
queries; Motion-sensitive bounding   boxes   (MSBs)

T S17/3,KWIC/1

17/3,KWIC/1   (Item 1 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)
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   Publication Year: 2006
   CODEN: ITKEEH   ISSN: 1041-4347
   DOI: 10.1109/TKDE.2006.81
   Language: English

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motion-adaptive   indexes**

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efficient evaluation of moving continual queries (MCQs)
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to model moving objects and moving queries . These boun
automatically adapt their sizes to the dynamic motion behavi
individual objects. Instead of indexing frequently changin
positions, we index less frequently changing object and qu
where updates to the bounding boxes are needed only when
queries move across the boundaries of their boxes . This
the number of updates to the indexes . More importantly, we
predictive query results to optimistically precalculate quer
decreasing the number of searches on the indexes . Motion-
bounding boxes are used to incrementally update the predi
results. Furthermore, we introduce the concepts of guarante
and optimistic safe radius to extend our motion-adaptive i
to evaluating moving continual k-nearest neighbor (kNN) que
experiments show that the proposed motion-adaptive indexin
efficient for the evaluation of both moving continual ran
and moving   continual kNN queries . copy 2006 IEEE. 32 Re
   Identifiers: Moving object databases; Spatio-temporal ind
Continual queries ; Motion-sensitive bounding   boxes (MS
?

Identifiers: Moving object databases; Continual queries; M
bounding   boxes   (MSB); Indexing

15/3,KWIC/3   (Item 3 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)

06460510   E.I. No: EIP03307561484
  Title: Trajectory queries and octagons in moving object dat
    Author: Zhu, Hongjun; Su, Jianwen; Ibarra, Oscar H.
    Corporate   Source: Department of Computer Science Univ. o
Santa Barbara, Santa Barbara, CA, United States
    Conference Title: Proceedings of the Eleventh Internationa
Information and Knowledge Management (CIKM 2002)
    Conference   Location: McLean, VA, United States   Co
20021104-20021109
    E.I. Conference No.: 61158
    Source: International Conference on Information and Knowle
Proceedings 2002. p 413-421
    Publication Year: 2002
    Language: English

    Abstract: An important class of queries in moving obje
involves trajectories. We propose to divide trajectory pred
topological and non-topological...

...databases, approximations of trajectories are typically
evaluating trajectory queries. In earlier studies, minimum
boxes (MBBs) are used to approximate trajectory segments w
index structures to be built, e...
?

15/3,KWIC/2   (Item 2 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)
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07418360   E.I. No: EIP05219121495
   Title: Motion adaptive indexing for moving continual queri objects
   Author: Gedik, Bugra; Wu, Kun-Lung; Yu, Philip; Liu, Ling
   Corporate Source: Georgia Institute of Tech., Atlanta, GA,
   Conference Title: CIKM 2004: Proceedings of the Thirteenth on Information and Knowledge Management
   Conference Location: Washington, DC, United States   C 20041108-20041113
   E.I. Conference No.: 64711
   Source: International Conference on Information and Knowle Proceedings CIKM 2004: Proceedings of the Thirteenth AC Information and Knowledge Management 2004.
   Publication Year: 2004
   Language: English

   Title: Motion adaptive indexing for moving continual moving   objects
   Abstract: This paper describes a motion adaptive indexing efficient evaluation of moving continual queries (MCQs) objects. It uses the concept of motion-sensitive bound -in (MSBs) to model moving objects and moving   queries . Thes boxes   automatically adapt their sizes to the dynamic motio individual objects. Instead of indexing...

   ...object positions, we index less frequently changing obje MSBs, where updates to the bounding boxes are needed on and queries move across the boundaries of their boxes . T decrease the number of updates to the indexes. More importan predictive...

   ...to optimistically precalculate query results, decreasing searches on the indexes. Motion-sensitive bounding   boxes incrementally update the predictive query results. Our exper that the proposed motion adaptive indexing scheme is effici evaluation of   moving   continual range queries . Copyright Refs.